

APICAL INDUSTRIES, INC.		ENGINEERING CHANGE NOTICE NO. 03084			SHEET 1 OF 1	
DWG NO. 647.1300		REV: A	PREPARED BY: N.CAP	DATE: 03/31/11	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
DWG TITLE: EC145 CABLE CUTTERS KIT						
APPROVED BY: <i>[Signature]</i>		ENGR: <i>[Signature]</i>	MFG: <i>[Signature]</i>	QC: <i>[Signature]</i>	EFF: <i>[Signature]</i>	NEXT ORDER
REASON: REVISED F/N 42 AND F/N 43 QUANTITIES ON BILL OF MATERIALS						
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE						

Superseded

43	R	601.3010	4	4	4	SCREW	MS27039-0810	
42	R	601.3224	4	4	4	SCREW	AN525-10R12	
F/N	TC	PART NUMBER	.1303	.1302	.1301	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:						CHANGE CATEGORY: <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR		
						DER REVIEW REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		

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NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 73 A/R TO FILL GAPS AND FILLET EDGES
2. APPLY F/N 74 TO FAYING SURFACES
- 3 AT CUSTOMERS OPTION, INSTALL F/N 77 BY MATCH DRILLING ONTO F/N 1

UNINCORPORATED ECN(S)

03084

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR3		N/C
N/C	INITIAL RELEASE	08/05/09	P. BRAVO
A	INCORPORATED ECN 02963, 03020, 03048	01/25/11	P. BRAVO

REF	REF	REF	77	647.5701	GPS MOUNT KIT	3
2		2	76	601.1954	SCREW	MS27039-1-17
	2	2	75	647.2010	UPPER STRUT	
	1	1	74	601.2045	RTV	LOCTITE 598
1		1	73	600.1012	SEALANT	PR-1425 CLASS B
1		1	72	600.0991	MAGNOBOND 6398 PART B	
1		1	71	600.0990	MAGNOBOND 6398 PART A	
4		4	70	601.3012	SCREW	MS27039-1-15
2		2	69	601.3004	CAMLOC STUD	
2		2	68	601.3005	CAMLOC RETAINER	
2		2	67	601.3006	CAMLOC RECEPTACLE	
3 FT.		3 FT.	66	601.3011	P-SEAL	
1.1 FT.		1.1 FT.	65	601.3007	GROMMET	MS21266-2N
2		2	64	601.3008	INSERT	NAS1834C-300
12		12	63	601.2364	RIVET	CR3213-4-8
16		16	62	601.2468	RIVET	CR3213-4-7
11		11	61	601.2991	RIVET	CR3213-4-6
2		2	60	601.1039	RIVET	CR3213-4-2
8		8	59	601.1183	RIVET	CR3213-4-5
22		22	58	601.0790	RIVET	CR3213-4-3
8		8	57	601.2995	RIVET	CR3213-6-6
4		4	56	601.1915	RIVET	CR3213-4-4
12		12	55	601.2207	NUTPLATE RIVET	CCR264SS-3-03
4		4	54	601.1983	NUTPLATE RIVET	CCR274SS-3-03
12		12	53	601.2980	NUTPLATE RIVET	CCR264SS-3-04
12		12	52	600.0795	NUTPLATE	MS21047-3
	4	4	51	601.3209	LOCKNUT	MS21042L4
5	4	9	50	601.2973	LOCKNUT	MS21042-08
29	16	45	49	601.2943	LOCKNUT	MS21042-3
3		3	48	601.2375	WASHER	
10	8	18	47	601.2764	WASHER	NAS1149FN832P
70	32	102	46	601.1607	WASHER	NAS1149F0332P
1		1	45	601.2525	SCREW	MS27039-0807
4		4	44	601.1952	SCREW	MS27039-1-20
	4	4	43	601.3010	SCREW	MS27039-0810
4		4	42	601.3224	SCREW	AN525-10R12
6		6	41	601.1365	SCREW	MS27039-1-10
3		3	40	601.2198	SCREW	MS27039-1-07
3		3	39	601.2999	SCREW	
18		18	38	601.2459	SCREW	MS27039C1-06
4		4	37	601.1622	SCREW	MS27039-1-14
10		10	36	601.2051	SCREW	MS24694C52
2		2	35	601.2823	BOLT	AN3-4A
1		1	34	601.1324	BOLT	AN4CH6A
.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MAT'L SPEC.

	2	2	33	601.1874	BOLT	AN3C10A	
	16	16	32	601.2826	BOLT	AN3-11A	
8		8	31	601.2638	WASHER	NAS1149F0432P	
4		4	30	601.3002	BOLT	NAS6604-66	
2		2	29	647.1811	SPACER		
4		4	28	647.2511	NUT		
4		4	27	647.2510	SLEEVE		
13		13	26	647.1812	SHIM		
4		4	25	647.1910	CLIP		
1		1	24	647.1810	NOSE DOOR DOUBLER		
1		1	23	647.1818	NOSE DOOR SPACER		
2		2	22	647.1813	ANGLE		
1		1	21	647.1913	TEE		
1		1	20	647.1814	GUSSET, LH		
1		1	19	647.1815	GUSSET, RH		
1		1	18	647.1915	SUPPORT ANGLE		
	2	2	17	647.2011	LOWER STRUT		
1		1	16	647.1914	BRACKET		
1		1	15	647.1816	SUPPORT, LH		
1		1	14	647.1817	SUPPORT, RH		
1		1	13	647.1912	BRACKET, LH		
1		1	12	647.1911	BRACKET, RH		
4	4	8	11	647.0112	STRUT BRACKET		
	1	1	10	647.2110	LOWER RAIL		
1		1	9	647.2111	UPPER RAIL		
1		1	8	647.1610	WIPER DEFLECTOR, FWD		
1		1	7	647.1601	WIPER DEFLECTOR ASSY, AFT		
	2	2	6	647.1701	SKID DEFLECTOR ASSY		
1		1	5	647.3201	GROUNDING CABLE ASSY		
1		1	4	647.2201	CROSS ASSY		
1		1	3	647.1602	DOUBLER ASSY		
	1	1	2	647.1402	CUTTER ASSY (LOWER)		
	1	1	1	647.1401	CUTTER ASSY (UPPER)		
				647.1303	FIXED PROVISIONS KIT		
				647.1302	REMOVABLE PROVISIONS KIT		
				647.1301	EC145 CABLE CUTTERS KIT		
.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

PARTS LIST			
QTY	ORIGINAL DATE (MO-DA-YR)	CHECKER	APICAL INDUSTRIES
NEXT ASSY (S)	07/06/09	D. BARKER	2608 TEMPLE HEIGHTS DR.
	DRAWN BY R. ROSANO		OCEANSIDE, CA. 92056-3512 (760)724-5300
	DRAWING APPROVAL P. BRAVO		
	08/05/09		
	CONTRACT NO.		
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		
	2 PLACE DECIMALS ±.03		
	3 PLACE DECIMALS ±.010		
	ANGLES ±.5°		
SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.1300	REV. A
SCALE NONE		SHEET 1 OF 7	

1 2 3 4 5 6 7 8

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

DETAIL A

3
B3

DETAIL B

4
B2

DETAIL C

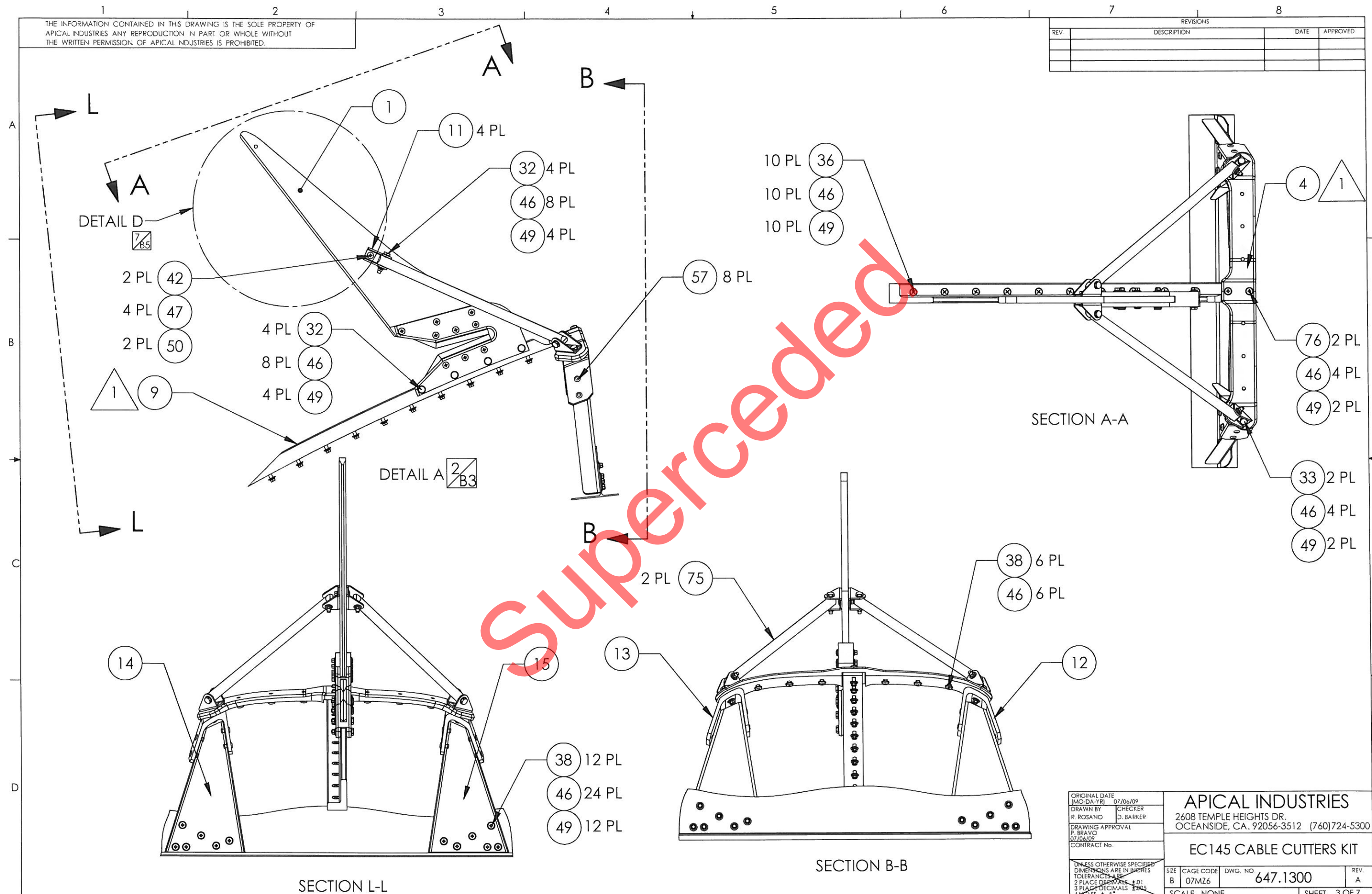
5
C3

7
D4

Superseded

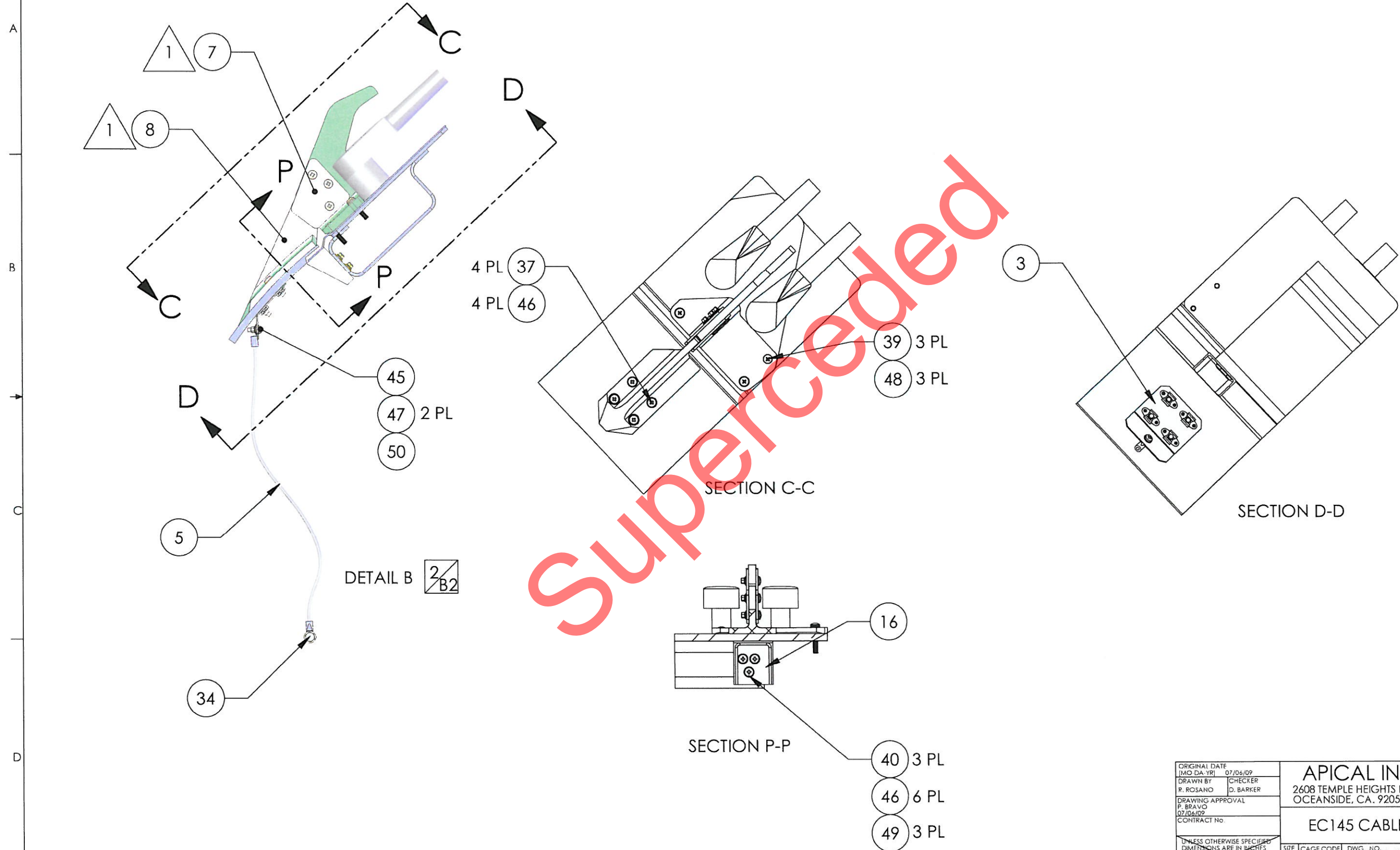
ORIGINAL DATE (MO-DA-YR) 07/06/09		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
CHECKER D. BARKER		EC145 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO		DWG. NO. 647.1300	
CONTRACT NO.		REV. A	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± 5°		SIZE B	SCALE NONE
		CAGE CODE 07MZ6	SHEET 2 OF 7

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



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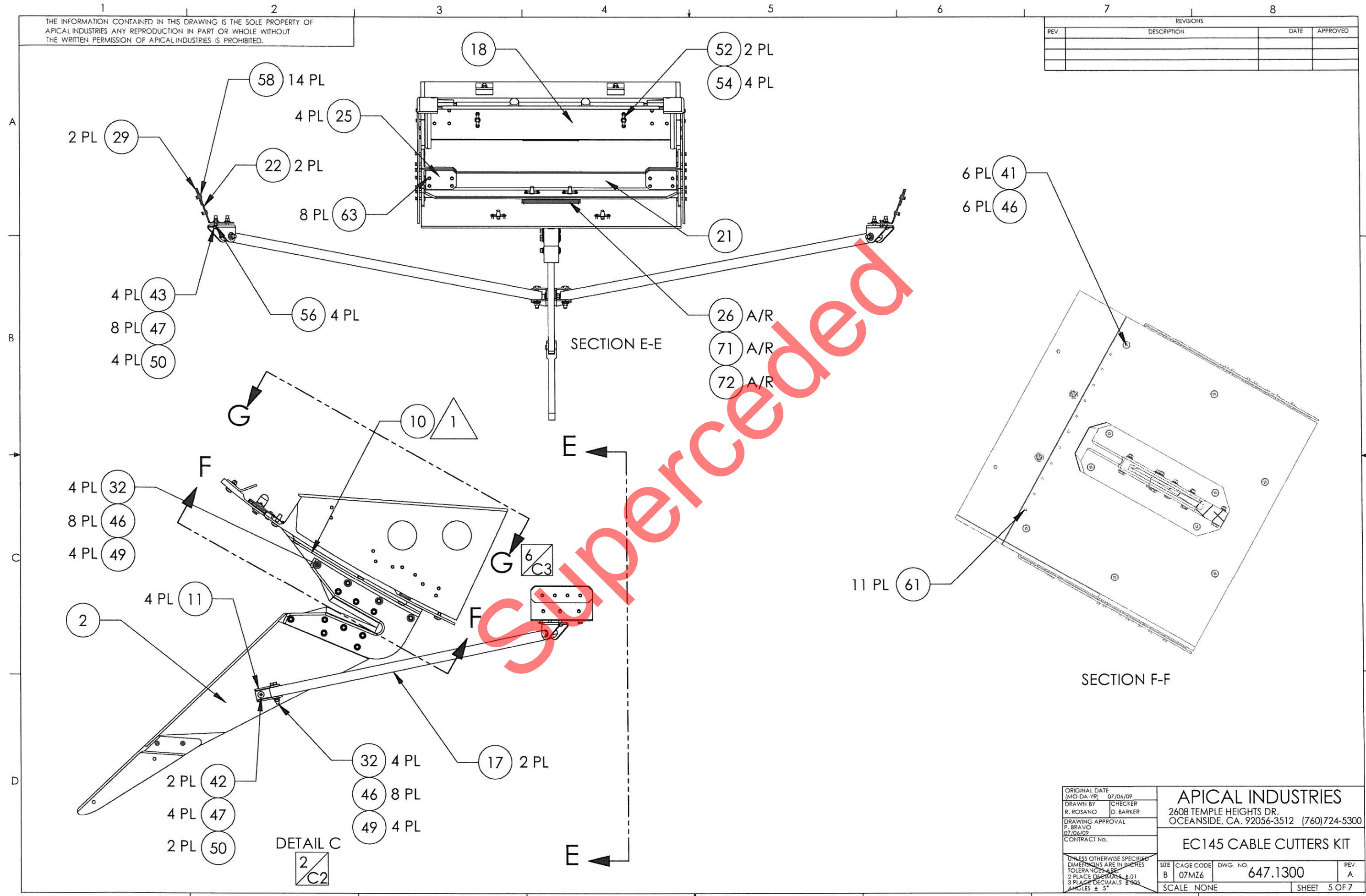
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE (MO-DA-YR) 07/06/09	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300		
DRAWN BY P. ROSANO	CHECKER D. BARKER		
DRAWING APPROVAL P. BRAVO 07/06/09		EC145 CABLE CUTTERS KIT	
CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		SIZE	REV.
		CAGE CODE	A
		DWG. NO.	
SCALE NONE		07MZ6	647.1300
		SHEET	4 OF 7

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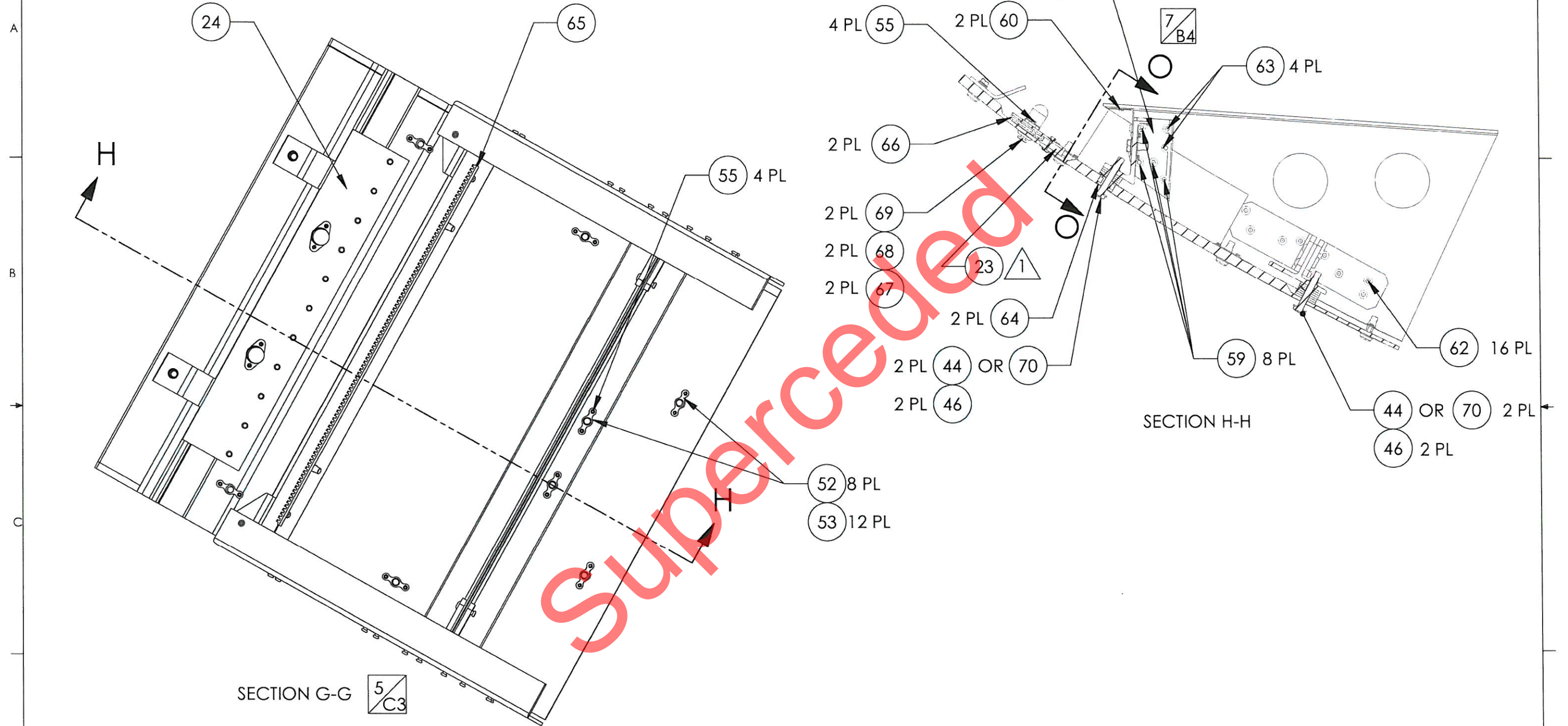
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE (MO-DA-YR) 07/06/09		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER D. BARKER		EC145 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO		SIZE B CAGE CODE 07M26 DWG. NO. 647.1300	
07/06/09		SCALE NONE	
CONTRACT NO.		SHEET 5 OF 7	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± 5°		REV. A	

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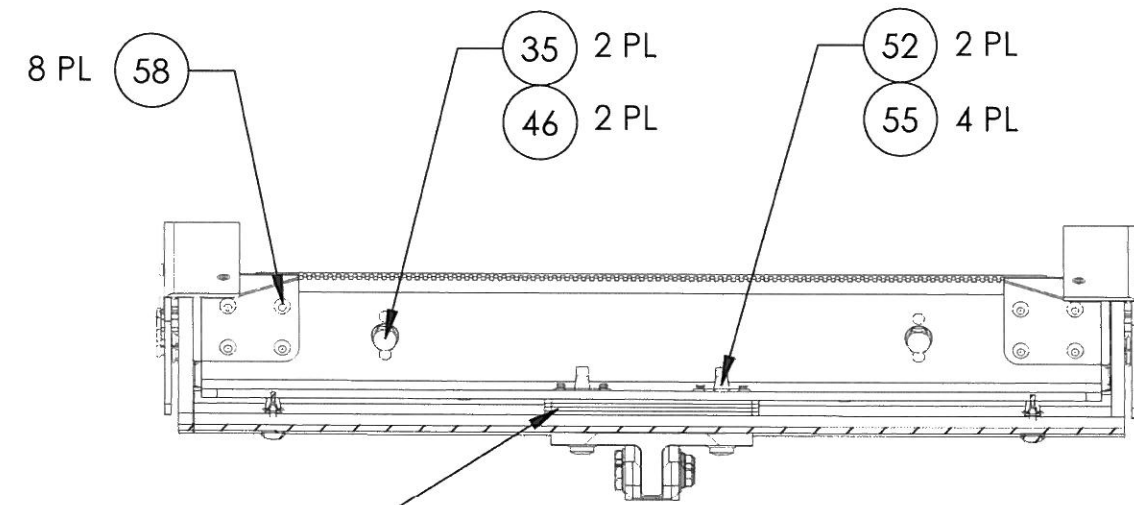
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE (MO, DA, YR) 07/06/09		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER D. BARKER		EC145 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO		DWG. NO. 647.1300	
07/06/09		REV. A	
CONTRACT NO.		SCALE NONE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SHEET 6 OF 7	

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REVISIONS			
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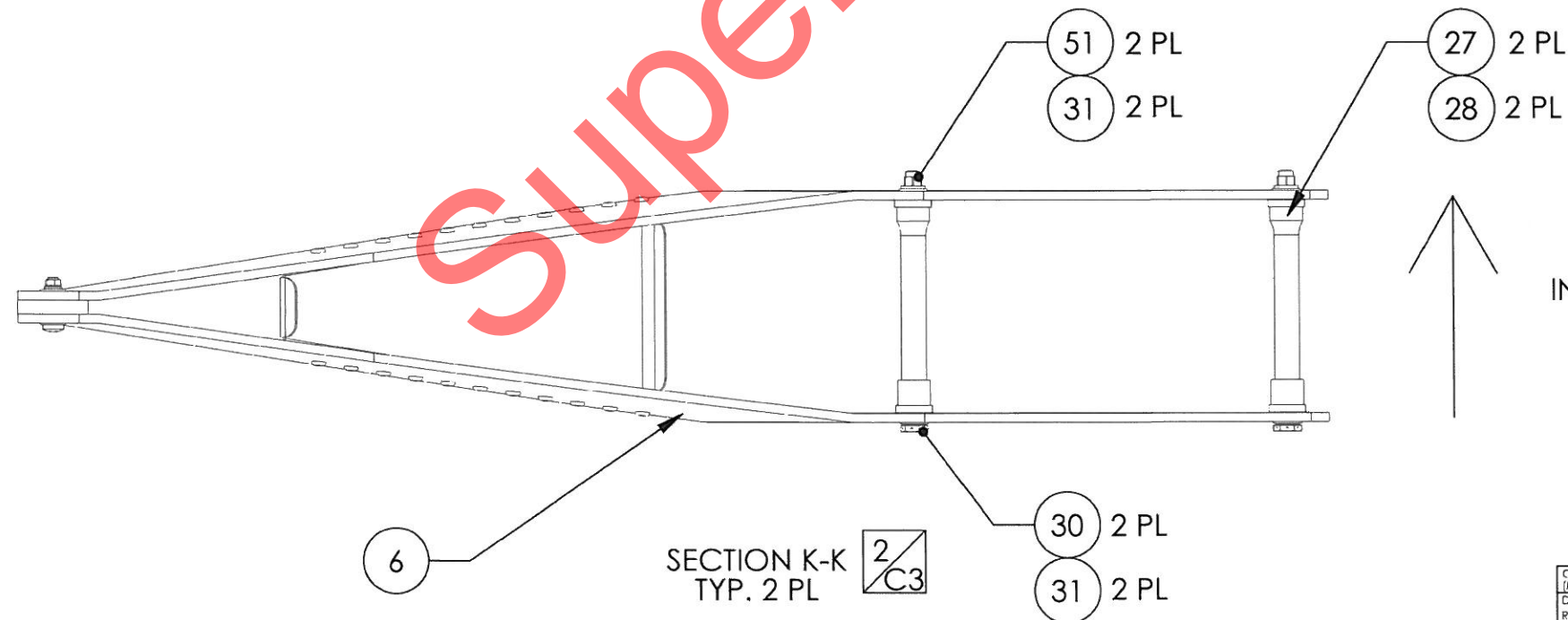
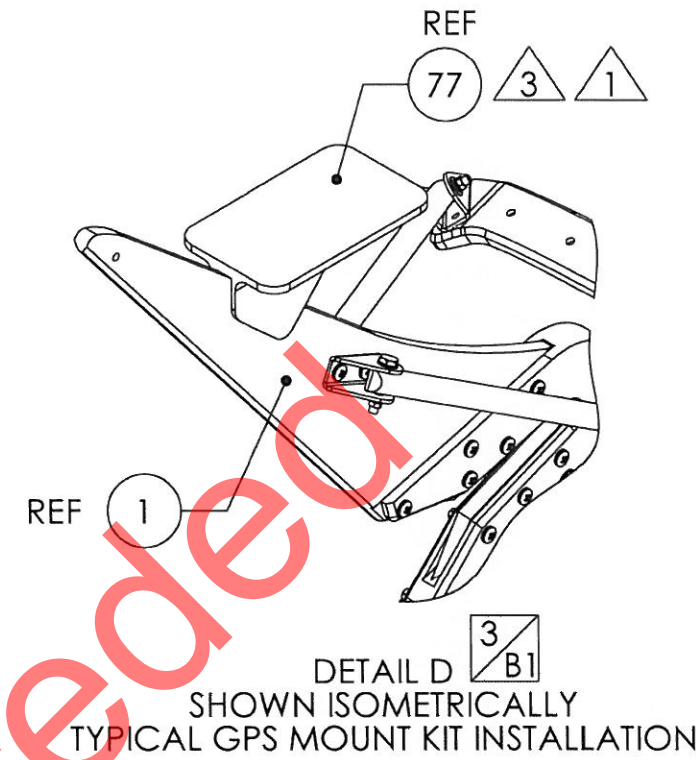


A/R (26)

A/R (71)

A/R (72)

SECTION O-O 6/A6



ORIGINAL DATE (MO-DA-YR) 07/06/09		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER D. BARKER		EC145 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO		SIZE B	REV A
CONTRACT NO.		CAGE CODE 07MZ6	DWG. NO. 647.1300
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE	SHEET 7 OF 7